

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having the ability to produce C-13 glycosidated nemadectin or C-13 hydroxynemadectin.

2. (currently amended) ~~The microorganism strain according to claim 1, wherein the microorganism strain having ability to produce C-13 glycosidated nemadectin~~ An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* and having ability to produce C-13 glycosidated nemadectin, wherein said microorganism strain is *Streptomyces cyaneogriseus* subsp. *noncyanogenus* Δ nemA4::vph attB_{TG1}::aveA4-aveA3-aveE attB_{φ_{C31}}::aveR attB_{R4}::aveBI-BVIII (FERM BP-8394).

3. (withdrawn-currently amended) [[A]] An isolated microorganism strain belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having ability to produce C-13 hydroxynemadectin.

4. (withdrawn) The microorganism strain according to claim 3 wherein the strain having ability to produce C-13 hydroxynemadectin is *Streptomyces cyaneogriseus* subspecies *noncyanogenus* Δ nemA4::vph attB_{TG1}::aveA4-aveA3-aveE attB_{c31}::aveR (FERM BP-8395).

5. (withdrawn-currently amended) A process for manufacturing C-13 hydroxynemadectin comprising culturing a microorganism belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having the ability to produce C-13 hydroxynemadectin in a medium, producing and accumulating C-13 hydroxynemadectin in a culture medium, and collecting C-13 hydroxynemadectin from the cultured mass.

6. (withdrawn-currently amended) A process for manufacturing C-13 glycosidated nemadectin comprising culturing a microorganism belonging to *Streptomyces cyaneogriseus* subspecies *noncyanogenus* comprising gene groups of avernectin aglycon bionthesis of *Streptomyces avermitilis* and having ability to produce C-13 glycosidated nemadectin in a medium, producing and accumulating C-13 glycosidated nemadectin in a culture medium, and collecting C-13 glycosidated nemadectin from the cultured mass.

7-9. (cancelled)

10. (withdrawn-currently amended) A method for preparation of the microorganism described in claim [[9]] 1 ~~belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining comprising introducing~~ gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis into a microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 glycosidated nemadectin.

11. (withdrawn-currently amended) A nemadectin non-producing microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and ~~inserting~~ comprising a viomycin resistant gene in the region coding nemadectin aglycon biosynthesis genes nemA3-4 operon KS10 (KS10 insertion mutant).

12. (withdrawn) The microorganism strain according to claim 11 wherein the nemadectin non-producing microorganism strain is Streptomyces cyaneogriseus subspecies noncyanogenus Δ nemA4::vph (FERM BP-8393).

13. (withdrawn-currently amended) [[A]] The microorganism strain ~~belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining~~ according to claim 11, further comprising avermectin

aglycon biosynthesis genes aveA3-4 of Streptomyces avermitilis in the KS10 insertion mutant, and having ability to form a hybrid PKS with NemA1-2 and AVES3-4.

14. (withdrawn-currently amended) ~~A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to form a hybrid PKS with NemA1-2 and AVES3-4,~~
The microorganism strain according to claim 13, wherein the microorganism strain ~~maintains~~ comprises a regulator gene aveR of avermectin biosynthesis genes of Streptomyces avermitilis.

15. (withdrawn-currently amended) ~~A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to form a hybrid PKS with NemA1-2 and AVES3-4,~~
~~wherein the microorganism strain maintains a regulator gene aveR of avermectin biosynthesis genes and~~ The microorganism strain according to claim 14, further comprising an avermectin glycosidation and ~~[[an]]~~ oleandrose biosynthesis genes aveBI-BVIII of Streptomyces avermitilis.